

Appln No. 09/525,505

Amdt date August 22, 2003

Reply to Office action of May 28, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A field emission display comprising:

first and second substrates spaced apart from each other with a predetermined distance, the first substrate having a top surface and the second substrate having a bottom surface, the top surface of the first substrate facing the bottom surface of the second substrate;

a cathode disposed on the top surface of the first substrate, the cathode having a top surface and a bottom surface, the bottom surface of the cathode contacting the top surface of the first substrate;

an anode disposed on the bottom surface of the second substrate, the anode having a top surface and a bottom surface, the top surface of the anode contacting the bottom surface of the second substrate;

a phosphor screen formed on the bottom surface of the anode; and

an emitter formed on the top surface of the cathode, the emitter facing the phosphor screen;

wherein the emitter comprises an electron emission member having a longitudinal dimension and an aspect ratio greater than one and an alignment member for aligning the electron emission member relative to the cathode;

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wherein the alignment member is formed with a magnetic material.

2. (Currently Amended) A field emission display comprising:

first and second substrates spaced apart from each other with a predetermined distance, the first substrate having a top surface and the second substrate having a bottom surface, the top surface of the first substrate facing the bottom surface of the second substrate;

a cathode disposed on the top surface of the first substrate, the cathode having a top surface and a bottom surface, the bottom surface of the cathode contacting the top surface of the first substrate;

an anode disposed on the bottom surface of the second substrate, the anode having a top surface and a bottom surface, the top surface of the anode contacting the bottom surface of the second substrate;

a phosphor screen formed on the bottom surface of the anode; and

an emitter formed on the top surface of the cathode, the emitter facing the phosphor screen;

wherein the emitter comprises an electron emission member having a longitudinal dimension and an aspect ratio greater than one, and an alignment member for aligning the electron emission member relative to the cathode;

wherein the alignment member is formed with a magnetic material; and

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wherein the electron emission member is aligned by the alignment member such that the longitudinal dimension of the electron emission member is substantially vertically extended from the cathode toward the phosphor screen of the anode.

3. (Original) The field emission display of claim 1 wherein the electron emission member is formed with carbon fibers.

4. (Original) The field emission display of claim 3 wherein the magnetic material is coated on the carbon fibers.

5. (Original) The field emission display of claim 2 wherein the electron emission member is formed with carbon fibers.

6. (Previously Amended) The field emission display of claim 5 wherein the magnetic material is coated on the carbon fibers.

7. (Original) The field emission display of claim 1 wherein the electron emission member is formed with graphite particles.

8. (Original) The field emission display of claim 7 wherein the magnetic material is coated on the graphite particles.

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9. (Original) The field emission display of claim 2 wherein the electron emission member is formed with graphite particles.

10. (Original) The field emission display of claim 9 wherein the magnetic material is coated on the graphite particles.

Claims 11-14. (Previously Canceled)

15. (Currently amended) A field emission display comprising:

first and second substrates spaced apart from each other;
a cathode disposed on the first substrate;
an anode disposed on the second substrate;
a phosphor screen disposed on the anode; and
an emitter disposed on the cathode and facing the phosphor screen, the emitter comprising an electron emission member having a longitudinal dimension and an aspect ratio greater than one, and an alignment member to align the electron emission member relative to the cathode, the alignment member comprising a magnetic material.

16. (Currently Amended) The field emission display of claim 15 wherein the electron emission member ~~comprises a longitudinal dimension, and~~ is aligned by the alignment member

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such that the longitudinal dimension of the electron emission member is substantially perpendicular to the cathode.

17. (Previously Canceled)

18. (Previously Added) The field emission display of claim 1, wherein the emitter is a broad area emitter.

19. (Previously Added) The field emission display of claim 2, wherein the emitter is a broad area emitter.

20. (Previously Added) The field emission display of claim 15, wherein the emitter is a broad area emitter.